IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1 *(Previously Presented)*:   A method for measuring data quality of service on a communication path between a first node in a traffic wireless network and a second node in a data network, the method comprising:

sending to the first node command information related to data quality of service measurements for at least one of the communications path and the second node;

performing measurements on at least one of the communication path and the second node to produce measurement information in relation to said command information; and

receiving response information in relation to said measurement information and said command information.

Claim 2 *(Original)*:   The measuring method of claim 1 wherein said sending step uses a wireless link.

Claim 3 *(Original)*:   The measuring method of claim 1, wherein said sending step uses a CDPD link.

Claim 4 *(Original)*:   The measuring method of claim 1,

wherein said sending step uses a wireless LAN link.

Claim 5 *(Original)*:   The measuring method of claim 1, wherein said sending step uses a wired link.

Claim 6 *(Original)*:   The measuring method of claim 1, wherein said receiving step uses a wireless link.

Claim 7 *(Original)*:   The measuring method of claim 1, wherein said receiving step uses a CDPD link.

Claim 8 *(Original)*:   The measuring method of claim 1, wherein said receiving step uses a wireless LAN link.

Claim 9 *(Original)*:   The measuring method of claim 1, wherein said receiving step uses a wired link.

Claim 10 *(Original)*:   The measuring method of claim 1, wherein said performing step produces measurement information related to circuit switched data.

Claim 11 *(Original)*:   The measuring method of claim 1, wherein said performing step produces measurement information related to packet data.

Claim 12 *(Original)*:   The measuring method of claim 1, wherein said performing step produces measurement information

related to SMS messages.

Claim 13 *(Original)*: The measuring method of claim 1, wherein said performing step produces measurement information related to wireless Internet access.

Claim 14 *(Original)*: The measuring method of claim 1, wherein said performing step produces measurement information related to wireless Internet transactions.

Claim 15 *(Original)*: The measuring method of claim 14, wherein wireless Internet transactions are e-commerce transactions.

Claim 16 *(Original)*: The measuring method of claim 1, wherein said performing step produces measurement information related to push data.

Claim 17 *(Original)*: The measuring method of claim 1, wherein said performing step produces measurement information related to latency.

Claim 18 *(Original)*: The measuring method of claim 1, wherein said performing step produces measurement information includes Layer 3 network information.

Claim 19 *(Original)*: The measuring method of claim 1,

wherein said performing step produces measurement information

includes RF information.

Claim 20 *(Original)*: The measuring method of claim 1,

wherein said performing step produces measurement information

includes call connection information.

Claim 21 *(Original)*: The measuring method of claim 1,

wherein said performing step produces measurement information

related to iDEN.

Claim 22 *(Original)*: The measuring method of claim 1,

wherein said performing step produces measurement information

related to CDMA.

Claim 23 *(Original)*: The measuring method of claim 1,

wherein said performing step produces measurement information

related to TDMA.

Claim 24 *(Original)*: The measuring method of claim 1,

wherein said performing step produces measurement information

related to AMPS.

Claim 25 *(Previously Presented)*: A method for measuring

data quality of service in a traffic wireless network comprising:

sending command information related to data quality of

service measurements;

performing measurements to produce measurement information in relation to said command information;

receiving response information in relation to said measurement information and said command information; and

monitoring WAP gateway functions.

Claim 26 *(Previously Presented)*: A method for measuring data quality of service in a traffic wireless network comprising:

sending command information related to data quality of service measurements;

performing measurements to produce measurement information in relation to said command information;

receiving response information in relation to said measurement information and said command information; and

benchmarking in relation to a WAP gateway.

Claim 27 *(Canceled)*

Claim 28 *(Original)*: The measuring method of claim 1, comprising the further step of:

scheduling missions related to said command information.

Claim 29 *(Original)*: The measuring method of claim 1,

comprising the further step of:

generating test traffic related to said measurement information.

Claim 30 *(Original)*:   The measuring method of claim 1, comprising the further step of:

storing said control information at a remote unit.

Claim 31 *(Original)*:   The measuring method of claim 1, comprising the further step of:

storing said measurement information at a remote unit.

Claim 32 *(Original)*:   The measuring method of claim 1, comprising the further step of:

pre-processing said measurement information at a remote unit.

Claim 33 *(Original)*:   The measuring method of claim 1, comprising the further step of:

post-processing said measurement information at a back end processor.

Claim 34 *(Original)*:   The measuring method of claim 1, comprising the further step of:

organizing remote unit data, related to said command information, at a back end processor.

Claim 35 *(Original)*: The measuring method of claim 1, wherein said sending step includes sending said command information from a back end processor to at least one of a plurality of remote unit.

Claim 36 *(Original)*: The measuring method of claim 1, wherein said performing step includes performing said measurements using one of a plurality of remote units.

Claim 37 *(Original)*: The measuring method of claim 1, wherein said receiving step includes receiving said response information at a back end processor from at least one of a plurality of remote units.

Claim 38 *(Previously Presented)*: A measuring system for measuring data quality of service on communication paths between remote nodes in a wireless network and a node on a data network, the system comprising:

a back end processor for controlling the measuring system;

a plurality of remote units, in communication with said back end processor via a control link, acting as remote nodes to perform measurements on at least one of the communication paths and the node on the data network.

Claims 39-79 *(Canceled)*

Claim 80 *(Previously Presented)*: A measuring system for measuring data quality of service on at least one traffic wireless network, comprising:

    a back end processor for controlling the measuring system;

    a plurality of remote units, in communication with said back end processor via a control link, for performing measurements on the at least one traffic wireless network; and

    a WAP monitor for monitoring WAP gateway functions.

Claim 81 *(Previously Presented)*: A measuring system for measuring data quality of service on at least one traffic wireless network, comprising:

    a back end processor for controlling the measuring system;

    a plurality of remote units, in communication with said back end processor via a control link, for performing measurements on the at least one traffic wireless network; and

    a WAP benchmarker for benchmarking in relation to a WAP gateway.

Claims 82-88 *(Canceled)*

Claim 89 *(Previously Presented)*:   A remote unit, which is one of a plurality of remote units that communicates with a back end processor, for measuring data quality of service on a communication path between a first node in a traffic wireless network and a second node in a data network, the remote unit comprising:

> a control unit for controlling said remote unit;

> a location unit for providing position information;

> a control link modem for communicating via a control link with the back end processor; and

> at least one traffic modem for performing measurements on at least one of the communication path and the second node.

Claim 90 *(Original)*:   The remote unit of claim 89, wherein said control unit is a portable computer.

Claim 91 *(Original)*:   The remote unit of claim 89, wherein said control unit is a single board computer.

Claim 92 *(Original)*:   The remote unit of claim 89, wherein said location unit is a GPS receiver.

Claim 93 *(Original)*:   The remote unit of claim 89, wherein

said control link modem is a CDPD modem.

Claim 94 *(Original)*: The remote unit of claim 89, wherein said control link modem is a software-defined radio modem.

Claim 95 *(Original)*: The remote unit of claim 89, wherein said control link modem is a wired modem.

Claim 96 *(Original)*: The remote unit of claim 89, wherein each traffic modem of said at least one traffic modem performs measurements on a respective traffic wireless network of the at least one traffic wireless network.

Claim 97 *(Canceled)*

Claim 98 *(Original)*: The remote unit of claim 89, wherein a respective traffic modem of said at least one traffic modem is a modem module.

Claim 99 *(Original)*: The remote unit of claim 89, wherein a respective traffic modem of said at least one traffic modem is a cellular phone.

Claim 100 *(Original)*: The remote unit of claim 89, wherein a respective traffic modem of said at least one traffic modem is a software-defined radio.

Claim 101 *(Original)*: The remote unit of claim 89, wherein a respective traffic modem of said at least one traffic modem is an iDEN modem.

Claim 102 *(Original)*: The remote unit of claim 89, wherein a respective traffic modem of said at least one traffic modem is a CDMA modem.

Claim 103 *(Original)*: The remote unit of claim 89, wherein a respective traffic modem of said at least one traffic modem is a TDMA modem.

Claim 104 *(Original)*: The remote unit of claim 89, wherein a respective traffic modem of said at least one traffic modem is a GSM modem.

Claim 105 *(Original)*: The remote unit of claim 89, wherein said measurements are performed on circuit switched data.

Claim 106 *(Original)*: The remote unit of claim 89, wherein said measurements are performed on packet data.

Claim 107 *(Original)*: The remote unit of claim 89, wherein said measurements are performed on SMS messages.

Claim 108 *(Original)*: The remote unit of claim 89, wherein said measurements are performed on wireless Internet access.

Claim 109 *(Original)*: The remote unit of claim 89, wherein

said measurements are performed on wireless Internet

transactions.

Claim 110 *(Original)*: The remote unit of claim 89, wherein

said measurements are performed on wireless Internet e-commerce

transactions.

Claim 111 *(Original)*: The remote unit of claim 89, wherein

said measurements are performed on push data.

Claim 112 *(Original)*: The remote unit of claim 89, wherein

said measurements include latency measurements.

Claim 113 *(Original)*: The remote unit of claim 89, wherein

said measurements include data reliability.

Claim 114 *(Original)*: The remote unit of claim 89, wherein

said measurements include Layer 3 network information.

Claim 115 *(Original)*: The remote unit of claim 89, wherein

said measurements include RF information.

Claim 116 *(Original)*: The remote unit of claim 89, wherein

said measurements include call connection information.

Claim 117 *(Original)*: The remote unit of claim 89, wherein

each of said plurality of remote units includes a battery backup for providing backup battery power.

Claim 118 *(Original)*: The remote unit of claim 89, further comprising:

an external storage for storing at least one of said measurements.

Claim 119 *(Original)*: The remote unit of claim 89, further comprising:

a wireless LAN device for communicating with the back end processor.

Claim 120 *(Original)*: The remote unit of claim 89, further comprising:

an RF scanner for measuring the at least one traffic wireless network.

Claim 121 *(Original)*: The remote unit of claim 120, wherein said RF scanner is a software-defined radio.

Claim 122 *(Original)*: The remote unit of claim 89, wherein said remote unit is stationary.

Claim 123 *(Original)*: The remote unit of claim 89, wherein said remote unit is mobile.

Claim 124 *(Original)*:   The remote unit of claim 89, wherein said control link is wired.

Claim 125 *(Original)*:   The remote unit of claim 89, wherein said control link is wireless.

Claim 126 *(Canceled)*

Claim 127 *(Currently Amended)*: A method for measuring data quality of service on communication paths between plural remote units in a traffic wireless network and a second node in a data network, using a back end processor and the plural remote units, the method comprising:

  sending command information from the back end processor to at least two of the plural remote units, the command information being related to data quality of service measurements for at least one of the communication paths and the second node;

  performing measurements on at least one of the communication paths and the second node, using the at least two of the plural remote units, to produce measurement information in relation to said command information; and

  receiving response information at the back end processor from the at least two of the plural remote units, said response information being in relation to said

measurement information and said command information;

wherein said response information provides a measure of data quality of service for at least one of the ~~digital~~ communication paths and the second node.

Claim 128 *(Previously Presented)*: A method for measuring data quality of service on a communication path between a first node in a traffic wireless network and a second node in a data network, the method comprising:

receiving at the first node command information related to data quality of service measurements for at least one of the communication path and the second node, the command information being sent from a back end processor;

performing one or more measurements of performance on at least one of the communication path and the second node to produce measurement information in relation to said command information; and

sending response information in relation to said measurement information and said command information to the back end processor.

Claim 129 *(Previously Presented)*: A method for producing a measurement result that is indicative of data quality of service on communication paths between plural remote units in a traffic

wireless network and a second node on a data network, the method

comprising:

sending command information to the plural remote units,

said command information being related to data quality of

service measurements for at least one of the communication

paths and the second node;

receiving response information from the plural remote

units, said response information being in relation to said

command information and measurements performed on the at

least one of the communication paths and the second node via

the plural remote units; and

generating a measurement result based on said response

information.

Claim 130 *(Previously Presented)*: A system for assessing

data quality of service on communication paths between remote

nodes in a wireless network and a node on a data network, the

system comprising:

means for obtaining measurements, at a statistically

significant number of locations, of a performance parameter

of at least one of the communications paths and the node on

the data network; and

means for consolidating information indicative of the

measurements obtained by the means·for obtaining;

wherein the information consolidated by the means for
consolidating provides an assessment of data quality of
service for the at least one of the communication paths and
the node on the data network.

Claim 131 *(Original)*: The system of claim 130, wherein the
means for obtaining measurements comprises plural remote units.

Claim 132 *(Original)*: The system of claim 131, wherein a
portion of the plural remote units are mobile units.

Claim 133 *(Original)*: The system of claim 131, wherein
substantially all of the plural measurement units are mobile
units.

Claim 134 *(Original)*: The system of claim 131, wherein
substantially all of the plural measurement units are stationary
units.

Claim 135 *(Original)*: The system of claim 130, wherein the
means for consolidating comprises a back end processor.

Claim 136 *(Original)*: The system of claim 130, wherein the
means for obtaining measurements performs the function of
obtaining measurements in response to command information
received from the means for consolidating.

Claim 137 *(Previously Presented)*: A device for obtaining
measurements indicative of data quality of service for at least
one of communication paths between the device on a wireless
network providing data service and a node on a data network, the
device comprising:

a control link modem providing communications with a back
end processor;

a traffic modem providing communications via the wireless
network;

a location unit providing position information; and

a computer, the computer comprising:

a processor in communication with the control link
modem and the traffic modem, and being connected to the
location unit, and

a memory, connected to the processor, bearing software
instructions adapted to enable the computer to perform
the steps of:

receiving command information from the back end
processor;

sending test traffic over one or more of the
communication paths from the device on the
wireless network to the node on the data network
based on the command information received from the

back end processor;

receiving response traffic over the wireless network

from the node on the data network in reply to the

test traffic;

recording measurement information comprising

information regarding the test traffic, the

response traffic, and location information

contemporaneous with the step of receiving

response traffic; and

sending the recorded measurement information to the

back end processor.

Claim 138 *(Previously Presented)*: A device for obtaining
measurements indicative of data quality of service for at least
one of communication paths between the device on a wireless
network providing data service and a node on a data network, the
device comprising:

a control link modem providing communications with a back
end processor;

a traffic modem providing communications via the wireless
network;

a location unit providing position information; and

a computer, the computer comprising:

a processor in communication with the control link

modem and the traffic modem, and being connected to the

location unit, and

a memory, connected to the processor, bearing software

instructions adapted to enable the computer to perform

the steps of:

receiving command information from the back end

processor;

receiving test traffic over one or more of the

communication paths between the device on the

wireless network and the node on the data network;

recording measurement information comprising

information regarding the test traffic and

location information contemporaneous with the step

of receiving test traffic; and

sending the recorded measurement information to the

back end processor.

Claim 139 *(Previously Presented)*: A device for obtaining

measurements indicative of data quality of service for at least

one of communication paths between the device on a wireless

network providing data service and a node on a data network, the

device comprising:

a modem providing communications with a back end processor

and providing communications via the wireless network;

a location unit providing position information; and

a computer, the computer comprising:

    a processor in communication with the modem and being connected to the location unit, and

    a memory, connected to the processor, bearing software instructions adapted to enable the computer to perform the steps of:

        receiving command information from the back end processor;

        sending test traffic over one or more of the communication paths from the device on the wireless network to the node on the data network based on the command information received from the back end processor;

        receiving response traffic over the wireless network from the node on the data network in reply to the test traffic;

        recording measurement information comprising information regarding the test traffic, the response traffic, and location information contemporaneous with the step of receiving response traffic; and

        sending the recorded measurement information to the

back end processor.

Claim 140 *(Previously Presented)*:   A device for obtaining
measurements indicative of data quality of service for at least
one of communication paths between the device on a wireless
network providing data service and a node on a data network, the
device comprising:

a modem providing communications with a back end processor
and providing communications via the wireless network;

a location unit providing position information; and

a computer, the computer comprising:

a processor in communication with the modem and being
connected to the location unit, and

a memory, connected to the processor, bearing software
instructions adapted to enable the computer to perform
the steps of:

receiving command information from the back end
processor;

receiving test traffic over one or more of the
communication paths between the device on the
wireless network and the node on the data network;

recording measurement information comprising
information regarding the test traffic and
location information contemporaneous with the step

of receiving test traffic; and

sending the recorded measurement information to the

back end processor.

Claims 141-143 *(Canceled)*

Claim 144 *(Previously Presented)*: The measuring method of

claim 1, wherein said performing step produces measurement

information related to CDPD.

Claim 145 *(Previously Presented)*: The measuring method of

claim 1, wherein said performing step produces measurement

information related to PDAs.

Claim 146 *(Previously Presented)*: The measuring method of

claim 1, wherein said performing step produces measurement

information related to GSM.

Claims 147-148 *(Canceled)*

Claim 149 *(Previously Presented)*: The remote unit of claim

89, wherein a respective traffic modem of said at least one

traffic modem is a PDA modem.

Claim 150 *(Previously Presented)*: The remote unit of claim

89, wherein a respective traffic modem of said at least one

traffic modem is a CDPD modem.

Claim 151 *(Previously Presented)*: The remote unit of claim 89, wherein said measurements are performed on PDA traffic.

Claim 152 *(Previously Presented)*: The remote unit of claim 89, wherein said measurements are performed on CDPD traffic.

Claim 153 *(Previously Presented)*: The measuring method of claim 1, wherein said performing step produces measurement information related to private data network traffic.

Claim 154 *(Canceled)*

Claim 155 *(Previously Presented)*: The remote unit of claim 89, wherein said measurements are performed on private data network access.

Claims 156-162 *(Canceled)*